

Title (en)

A method of expanding the frequency range of a digital audio signal

Title (de)

Verfahren zum Expandieren des Frequenzbereichs eines digitalen audio Signals

Title (fr)

Procédé pour l'extension de la gamme de fréquences d'un signal audio numérique

Publication

**EP 0630108 B1 19981028 (EN)**

Application

**EP 94304002 A 19940603**

Priority

JP 13306793 A 19930603

Abstract (en)

[origin: EP0630108A2] A frequency range of a digital audio signal is effectively expanded without increasing a sampling frequency which has been used for generating the digital audio signal. Firstly, the digital audio signal is divided into first and second digital audio signals. The first digital audio signal is delayed by a predetermined time duration in order to be combined, at a later time, with the second digital audio signal which is to be subject to digital processing. The second digital audio signal undergoes band-pass filtering. Thereafter, the frequency range of the second digital audio signal which has been band-pass filtered, is expanded. Following this, the second digital audio signal whose frequency range has been expanded is combined with the first digital audio signal which has been delayed. Thus, the digital audio signal is expanded in terms of its frequency range.  
<IMAGE>

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